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What is Claimed is:

- A composition comprising cross-linked collagen a glycosaminoglycan, said composition retaining characteristics to function as a matrix or scaffold
 following terminal sterilization.
 - The composition of claim 1 further comprising a silicone layer applied to the collagen and glycosaminoglycan prior to cross-linking.
- 3. A terminally sterilized matrix or scaffold 10 comprising the composition of claim 1.
 - 4. A terminally sterilized matrix or scaffold comprising the composition of claim 2.
- 5. A method for producing the composition of claim 1 comprising cross-linking the collagen and 15 glycosaminoglycan at a density which stabilizes the composition toward electron beam radiation while retaining characteristics of the composition to function as a matrix or scaffold.
- 6. The method of claim 5 wherein cross-linking of 20 the composition is performed with glutaraldehyde at a concentration greater than 0.25%.
 - 7. The method of claim 5 wherein the composition is subjected to two or more cross-linking steps.
- The method of claim 7 wherein the two or more
 cross-linking steps are performed with glutaraldehyde at
 0.25%.

- 9. A method for producing a terminally sterilized matrix or scaffold comprising:
 - (a) producing a composition of claim 1;
 - (b) sealing the composition in a package; and
- 5 (c) exposing the composition in the sealed package to electron beam radiation.
- The method of claim 9 wherein the composition of step (a) is produced by cross-linking the collagen and glycosaminoglycan at a density which stabilizes the
 composition toward electron beam radiation while retaining characteristics of the composition to function as a matrix or scaffold.
- 11. A terminally sterilized matrix or scaffold 15 produced in accordance with the method of claim 9.
- 12. A method for regenerating dermal or sub-dermal tissue in a subject comprising applying to or implanting within the subject the terminally sterilized matrix or scaffold of claim 3 at or near an excision site of dermal 20 or subdermal tissue or a site where augmentation of dermal or subdermal tissue is required.